

Name: _____

p1029: Combine Like Terms (v4)

Example

Combine like terms.

$$2x^2 - 7x - 3 + 3 + 8x^2 - 4x - 5x^2 + 1 + 5x - 2$$

Answer

Combine the quadratic terms.

$$2x^2 + 8x^2 - 5x^2 \equiv 5x^2$$

Combine the linear terms.

$$-7x - 4x + 5x \equiv -6x$$

Combine the constant terms.

$$-3 + 3 + 1 - 2 \equiv -1$$

The final result:

$$5x^2 - 6x - 1$$

Question 1

Combine like terms.

$$-8 + 6 + 3x^2 - 5x^2 + 4x^2 - 4 + 8x - 9x + 5x + 7x$$

$$2x^2 + 11x - 6$$

Question 2

Combine like terms.

$$3x^2 - 5x - 1 - 8 + x - 6x^2 - 2x^2 + 5 + 6x - 4x$$

$$-5x^2 - 2x - 4$$

Question 3

Combine like terms.

$$-5 - 2x - 6x + x - 9 + 8 + 5x^2 + 7x^2 + 3x^2 + 2x$$

$$15x^2 - 5x - 6$$

Question 4

Combine like terms.

$$-5 - 9x + 7 - 3x^2 + 2 + 8x + 5x^2 - 8x^2 + 4x - 7x^2$$

$$-13x^2 + 3x + 4$$